## INDEX OF VOLUME XXIII

Adams, R. A. and Fournier, John. Some imbedding theorems for Sobolev spaces, 517-530

Amberg, Bernhard. On groups with chain conditions, 151-159

Antonelli, P. L. On stable diffeomorphism of exotic spheres in the metastable range, 579-587

Armacost, D. L. Generators of monothetic groups, 791-796

Arsove, Maynard and Leutwiler, Heinz. Pseudo harmonic measures and the Dirichlet problem, 1116-1120

Askey, Richard and Gasper, George. Linearization of the product of Jacobi polynomials. III, 332-338

Atherton, C. R., Jr. On the lattice of primitive convergence structures, 392-397

Balbes, Raymond. On the partially ordered set of prime ideals of a distributive lattice, 866-874

Beachy, John A. Bicommutators of cofaithful, fully divisible modules, 202-213

Behrens, Ernst August. The arithmetic of the quasi-uniserial semigroups without zero, 507-516
Best, L. A. On torsion-free discrete subgroups of PSL(2, C) with compact orbit space, 451-460

Borges, Carlos R. Connectivity of function spaces, 759-763

Boyd, David W. On the exponent of an osculatory packing, 355-363

Bray, Henry; Killgrove, R. B.; Frand, Jason; and Giles, William. A geometric approach to the Heine-Borel Theorem, 845-848

Brown, Richard L. W. Immersions and embeddings up to cobordism, 1102-1115

Brown, Robert B. A characterization of spin representations, 896-906

Bruen, A. Partial spreads and replaceable nets, 381-391

Bruns, Günter and Kalmbach, Gudrun. Varieties of orthomodular lattices, 802-810

Burde, Gerhard. On branched coverings of S3, 84-89

Cailleau, Annie. Quasi-injectivité de certains modules sur leur anneau d'endomorphismes, 811-815

Carroll, Robert and State, Emile. Existence theorems for some weak abstract variable domain hyperbolic problems, 611–626

Cateforis, Vasily C. and Sandomierski, Francis L. On modules of singular submodule zero, 345-354

Clements, John C. Existence theorems for some nonlinear equations of evolution: Corrigendum, 1086

Cramer, Timothy. Boolean algebra retracts, 339-344

Crone, L.; Fleming, D. J.; and Jessup, P. Fundamental biorthogonal sequences and K-norms on \$\phi\$, 1040-1050

Cross, G. E. On the generality of the A P-integral, 557-561

Day, M. M.; James, R. C.; and Swaminathan, S. Normed linear spaces that are uniformly convex in every direction, 1051-1059

Delsarte, P.; Goethals, J. M.; and Seidel, J. J. Orthogonal matrices with zero diagonal. II, 816-832

Dembowski, Peter. Generalised Hughes planes, 481-494

Dixon, John D. Maximal Abelian subgroups of the symmetric groups, 426-438 Duda, Edwin and Haynsworth, W. Hugh. Finite-to-one open mappings, 77-83

Evans, Benny. First homology of irreducible 3-manifolds, 686-691

Evens, S.; Pnueli, A.; and Lempel, A. Transitive orientation of graphs and identification of permutation graphs, 160-175

Fieldhouse, David J. Characterisations of modules, 608-610

Fisher, Stephen. Approximation by unimodular functions, 257-269 Approximation by unimodular functions: Corrigendum, 1093

Fleming, D. J.; Jessup, P.; and Crone, L. Fundamental biorthogonal sequences and K-norms on ø, 1040-1050

Fournier, John and Adams, R. A. Some imbedding theorems for Sobolev spaces, 517-530

Frand, Jason; Giles, William; Bray, Henry; and Killgrove, R. B. A geometric approach to the Heine-Borel Theorem, 845-848

Friedman, N. A. and Tong, A. E. On additive operators, 468-480

Gardner, L. Terrell. On the "third definition" of the topology on the spectrum of a C\*-algebra, 445-450

On the Mackey Borel structure, 674-678

Gasper, George and Askey, Richard. Linearization of the product of Jacobi polynomials. III, 332-338

Giles, William; Bray, Henry; Killgrove, R. B.; and Frand, Jason. A geometric approach to the Heine-Borel Theorem, 845-848

Glauberman, George. Isomorphic subgroups of finite p-groups. I, 983-1022

Isomorphic subgroups of finite p-groups. 11, 1023-1039

Goethals, J. M.; Seidel, J. J.; and Delsarte, P. Orthogonal matrices with zero diagonal. II, 816-832

Gorman, Howard. Invertibility and class number of orders, 1-11

Gorman, Howard E. Radical regularity in differential rings, 197-201
Gudder, Stanley P. Representations of groups as automorphisms on orthomodular lattices and posets, 659-673

Hanson, T. H. McH. Actions of a locally compact group with zero, 413-420 Harris, Douglas. An interval characterization of realcompactness, 439-444

Harris, Morton E. and Hering, Christoph. On the smallest degrees of projective representations of the groups PSL(n, q), 90-102

Harvey, Bernard Niel. Representation of certain linear operators in Hilbert space, 132-150

Haynsworth, W. Hugh and Duda, Edwin. Finite-to-one open mappings, 77-83

Heil, Wolfgang. On 3-manifolds with sufficiently large decompositions, 746-748

Hering, Christoph and Harris, Morton E. On the smallest degrees of projective representations of the groups PSL(n, q), 90-102

Hochster, M. The minimal prime spectrum of a commutative ring, 749-758

Hou, Hsiang-Dah. Quasi-splitting exact sequence, 503-506

Howe, A. Klein's oscillation theorem for periodic boundary conditions, 699-703

Irwin, John and Swanek, James. On purifiable subsocles of a primary abelian group, 48-57

James, R. C.; Swaminathan, S.; and Day, M. M. Normed linear spaces that are uniformly convex in every direction, 1051-1059

Jessup, P.; Crone, L.; and Fleming, D. J. Fundamental biorthogonal sequences and K-norms on \$\phi\$, 1040-1050

Johnson, D. L. A note on supersoluble groups, 562-564

Kalmbach, Gudrun and Bruns, Günter. Varieties of orthomodular lattices, 802-810

Kantor, William M. On unitary polarities of finite projective planes, 1060-1077 Karrass, A. and Solitar, D. Subgroups of HNN groups and groups with one defining relation, 627-643

The free product of two groups with a malnormal amalgamated subgroup, 933-959

Killgrove, R. B.; Frand, Jason; Giles, William; and Bray, Henry. A geometric approach to the Heine-Borel Theorem, 845-848

King, R. C. The dimensions of irreducible tensor representations of the orthogonal and symplectic groups, 176-188

Körle, Hans-Heinrich. On absolute summability by Riesz and generalized Cesàro means. II: Addendum, 844

Krajewski, Lawrence L. On expanding locally finite collections, 58-68

Kreith, Kurt. Disconjugacy criteria for nonselfadjoint differential equations of even order, 644-652

Lachlan, A. H. Solution to a problem of Spector, 247-256

Larcher, H. Weierstrass points at the cusps of \(\Gamma(16p)\) and hyperellipticity of \(\Gamma\_0(n)\), 960-968

Lau, Anthony To-Ming. Invariant means on dense subsemigroups of topological groups, 797-801 Lawver, D. A. and Toubassi, E. H. Tensor products and the splitting of abelian groups, 764-770

Leech, John and Sloane, N. J. A. Sphere packings and error-correcting codes, 718-745

Lempel, A.; Even, S.; and Pnueli, A. Transitive orientation of graphs and identification of permutation graphs, 160-175

Leutwiler, Heinz, and Arsove, Maynard. Pseudo harmonic measures and the Dirichlet problem,

Lindsey, J. H., II. Finite linear groups of degree six, 771-790

Lovelady, David Lowell. Multiplicative integration of infinite products, 692-698

Lowenthal, Franklin. Uniform finite generation of the isometry groups of Euclidean and non-Euclidean geometry, 364-373

Malzan, J. Vertex subgroups of irreducible representations of solvable groups, 12-21 Marshall, Murray A. Ramification groups of abelian local field extensions, 271-281

The maximal p-extension of a local field, 398-402

McAdam, Stephen. Going down in polynomial rings, 704-711 Mercer, A. McD. On certain functional identities in E<sup>N</sup>, 315-324

Mitchem, John. On the point-arboricity of a graph and its complement, 287-292

Myung, Hyo Chul. A remark on the proof of a theorem of Laufer and Tomber, 270

Nelson, Evelyn. The lattice of equational classes of commutative semigroups, 875-895 Nicolas, Jean-Louis. Répartition des nombres hautement composés de Ramanujan, 116-130

Niclsen, Ole A. The asymptotic ratio set and direct integral decompositions of a von Neumann algebra, 598-607

Parmenter, M. M. On a theorem of Bovdi, 929-932

3

15

he

ic

1:

52

Peterson, G. E. A best possible Tauberian theorem for the collective continuous Hausdorff summability method, 544-549

Pierce, Stephen. Multilinear functions of row stochastic matrices, 833-843

Pnueli, A.; Lempel, A.; and Even, S. Transitive orientation of graphs and identification of permutation graphs, 160-175

Powers, David L. On the differentials of certain matrix functions, 282-286

Pranger, Walter. Extreme points in the Hardy class H1 of a Riemann surface, 969-976

Pressman, Irwin S. Obstructions to liftings in commutative squares, 977-982

Radjavi, Heydar and Rosenthal, Peter. A sufficient condition that an operator algebra be self-adjoint, 588-597

Rádo, F. Congruence-preserving isomorphisms of the translation group as associated with a translation plane, 214-221

Randolph, John W. An extension of a theorem of Janko on finite groups with nilpotent maximal subgroups, 550-552

Ravisankar, T. S. Characteristically nilpotent algebras, 222-235

Reed, G. M. On screenability and metrizability of Moore spaces, 1087-1092
Roberson, Fred A. Some theorems on the structure of nearly equicontinuous transformation groups, 421-425

Robertson, Neil. Pentagon-generated trivalent graphs with girth 5, 36-47

Roggenkamp, Klaus W. Grothendieck groups of Bass orders, 103-115 Rosenberg, Alan. On the primitivity of the group algebra, 536-540

Rosenthal, Peter and Radjavi, Heydar. A sufficient condition that an operator algebra be self-adjoint, 588-597

Roth, Richard L. A dual view of the Clifford theory of characters of finite groups, 857-865

Sachs, David. Geometric mappings on geometric lattices, 22-35

Sagle, Arthur A. On reductive Lie admissible algebras, 325-331

Salinas, Norberto. On the η function of Brown and Pearcy and the numerical function of an operator, 565-578

Schirmer, Helga. Biconnected multifunctions of trees which have an end point as fixed point or coincidence, 461-467

Schwartz, Alan. The structure of the algebra of Hankel transforms and the algebra of Hankel-Stieltjes transforms, 236-246

Sehgal, Sudarshan K. On class sums in p-adic group rings, 541-543

Seidel, J. J.; Delsarte, P.; and Goethals, J. M. Orthogonal matrices with zero diagonal. II, 816-832

Skerry, H. B. Mercerian conditions for the method (F, dn), 1078-1085

Sloane, N. J. A. and Leech, John. Sphere packings and error-correcting codes, 718-745

Solitar, D. and Karrass, A. Subgroups of HNN groups and groups with one defining relation, 627-643

The free product of two groups with a malnormal amalgamated subgroup, 933-959

Sreenivasulu, V. The maximum term and the rank of an entire function: Corrigendum, 131

State, Emile and Carroll, Robert. Existence theorems for some weak abstract variable domain hyperbolic problems, 611-626

Stauffer, H. B. A relationship between left exact and representable functors, 374-380

Stump, Robert K. Linear combinations of univalent functions with complex coefficients, 712-717
Swaminathan, S.; Day, M. M.; and James, R. C. Normed linear spaces that are uniformly convex in every direction, 1051-1059

Swanek, James and Irwin, John. On purifiable subsocles of a primary abelian group, 48-57

Tam, P. K. On the unitary equivalence of certain classes of non-normal operators. I, 849-856 Thorpe, B. An inclusion theorem for Bohr-Hardy summability factors, 653-658
Ton, Bui An. Periodic solution of non-linear evolution equations in Banach spaces, 189-196
Tong, A. E. and Friedman, N. A. On additive operators, 468-480
Toubassi, E. H. and Lawver, D. A. Tensor products and the splitting of abelian groups, 764-770
Turyn, Richard J. On C-matrices of arbitrary powers, 531-535

Walsh, T. On weighted norm inequalities for fractional and singular integrals, 907-928 Willett, D. Asymptotic behaviour of disconjugate nth order differential equations, 293-314 Woods, R. Grant. Homeomorphic sets of remote points, 495-502 Wong, H. Ship Fah. The topological degree of A-proper maps, 403-412 Wright, C. R. B. On primitive solvable linear groups, 679-685 Wright, Michael J. On the number of prolongations of a finite rank valuation, 553-556

